

APPLICATION NO.

10/649,704

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450

ATTORNEY DOCKET NO.	CONFIRMATION NO
241998US2S	6772

HO, TU TU V

PAPER NUMBER

22850 08/20/2004 7590 OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.

FILING DATE

08/28/2003

1940 DUKE STREET ALEXANDRIA, VA 22314

2818 DATE MAILED: 08/20/2004

ART UNIT

Please find below and/or attached an Office communication concerning this application or proceeding.

FIRST NAMED INVENTOR

Yoshiaki Fukuzumi

PTO-90C (Rev. 10/03)

D
W

	Application No.	Applicant(s)		
	10/649,704	FUKUZUMI, YOSHIAKI		
Office Action Summary	Examiner	Art Unit		
	Tu-Tu Ho	2818		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).				
Status				
1) Responsive to communication(s) filed on <u>28 August 2003</u> .				
2a) ☐ This action is FINAL . 2b) ☑ This	a) This action is FINAL . 2b) ⊠ This action is non-final.			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims				
4) Claim(s) 1-52 is/are pending in the application.				
4a) Of the above claim(s) is/are withdrawn from consideration.				
5) Claim(s) is/are allowed.				
6) Claim(s) is/are rejected.				
7) Claim(s) is/are objected to.				
8) Claim(s) <u>1-52</u> are subject to restriction and/or e	election requirement.			
Application Papers				
9) The specification is objected to by the Examine	г.			
10) The drawing(s) filed on is/are: a) acce		xaminer.		
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).		
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachmont/c\				
Attachment(s) 1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summary	(PTO-413)		
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da			

Application/Control Number: 10/649,704

Art Unit: 2818

Page 2

DETAILED ACTION

Election/ Restriction

Claims 1-52 are pending in this application.

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-31, drawn to a semiconductor memory device, classified in class 257, subclass 295.
 - II. Claims 32-52, drawn to a method of making a semiconductor memory device, classified in class 438, subclass 3.
- 2. If Invention I is selected, Applicant is further required to elect one of the following patently distinct species:

Species IA. Illustrated in Figures 1A and 1B or 15A and 15B

Species IB. Illustrated in Figure 8 or Figure 22, and

Species IC. Illustrated in Figures 10-13 or Figures 23-25.

3. If Invention II is selected, Applicant is further required to elect one of the following patently distinct species:

Species IIA. Illustrated in Figures 1C and 2A-2L

Species IIB. Illustrated in Figures 3 and 4

Species IIC. Illustrated in Figures 5-7

Species IID. Illustrated in Figures 15C and 16A-16F

Application/Control Number: 10/649,704

Art Unit: 2818

Species IIE. Illustrated in Figures 17-18, and

Species IIF. Illustrated in Figures 19-21.

4. The inventions are distinct, each from the other because of the following reasons: Inventions II and I are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case unpatentability of Invention I would not necessarily imply unpatentability of Invention II, since the device of Invention I could be made by processes materially different from those of Invention II. For example, the second ferromagnetic film of Invention I could be selectively deposited on the tunnel barrier film rather than by forming a second ferromagnetic layer on the tunnel barrier film then patterning the second ferromagnetic layer to expose a part of the tunnel barrier film as claimed in Invention II.

Page 3

5. Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claim 1 is generic to the claims in Invention I and claim 32 is generic to the claims in Invention II.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is

allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

- Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their different classification and their recognized divergent subject matter, restriction for examination purposes as indicated is proper.
- 7. Applicant is advised that the response to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Application/Control Number: 10/649,704

Art Unit: 2818

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tu-Tu Ho whose telephone number is (571) 272-1778. The examiner can normally be reached on 6:30 am - 5:00 pm.

Page 5

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, DAVID NELMS can be reached on (571) 272-1787. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

August 12, 2004